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1 [The measured cost of copying garbage collection mechanisms](#)

Michael W. Hicks, Jonathan T. Moore, Scott M. Nettles

August 1997 **ACM SIGPLAN Notices , Proceedings of the second ACM SIGPLAN international conference on Functional programming ICFP '97**, Volume 32 Issue 8

Publisher: ACM Press

Full text available: [pdf\(1.65 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We examine the costs and benefits of a variety of copying garbage collection (GC) mechanisms across multiple architectures and programming languages. Our study covers both low-level object representation and copying issues as well as the mechanisms needed to support more advanced techniques such as generational collection, large object spaces, and type segregated areas. Our experiments are made possible by a novel performance analysis tool, *Oscar*. Oscar allows us to capture snapshots of pr ...

2 [Fast, effective code generation in a just-in-time Java compiler](#)

Ali-Reza Adl-Tabatabai, Michał Cierniak, Guei-Yuan Lueh, Vishesh M. Parikh, James M. Stachnoth

May 1998 **ACM SIGPLAN Notices , Proceedings of the ACM SIGPLAN 1998 conference on Programming language design and implementation PLDI '98**, Volume 33 Issue 5

Publisher: ACM Press

Full text available: [pdf\(1.44 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A "Just-In-Time" (JIT) Java compiler produces native code from Java byte code instructions during program execution. As such, compilation speed is more important in a Java JIT compiler than in a traditional compiler, requiring optimization algorithms to be lightweight and effective. We present the structure of a Java JIT compiler for the Intel Architecture, describe the lightweight implementation of JIT compiler optimizations (e.g., common subexpression elimination, register allocation, and elim ...

3 [The AudioWeb](#)

Daniel Barberá

January 1997 **Proceedings of the sixth international conference on Information and knowledge management**

Publisher: ACM Press

Full text available:  pdf(1.16 MB)Additional Information: [full citation](#), [references](#), [index terms](#)**4 Towards a design methodology for adaptive applications**  Malcolm McIlhagga, Ann Light, Ian WakemanOctober 1998 **Proceedings of the 4th annual ACM/IEEE international conference on Mobile computing and networking****Publisher:** ACM PressFull text available:  pdf(1.29 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**5 The "growing up" of HyperBraille—an office workspace for blind people**  Thomas KieningerNovember 1996 **Proceedings of the 9th annual ACM symposium on User interface software and technology****Publisher:** ACM PressFull text available:  pdf(840.13 KB) Additional Information: [full citation](#), [references](#), [index terms](#)

Keywords: HTML editor, World Wide Web, blindness, document analysis, hypertext, pattern matcher

6 Using code mobility to create ubiquitous and active augmented reality in mobile computing  Kari Kangas, Juha RöningAugust 1999 **Proceedings of the 5th annual ACM/IEEE international conference on Mobile computing and networking****Publisher:** ACM PressFull text available:  pdf(1.35 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: augmented reality, mobile code, mobile computing, ubiquitous computing

7 Ada-Java communication in ADEPT  Anthony GargaroNovember 1997 **Proceedings of the conference on TRI-Ada '97****Publisher:** ACM PressFull text available:  pdf(2.12 MB) Additional Information: [full citation](#), [references](#), [index terms](#)**8 Representing Java classes in a typed intermediate language**  Christopher League, Zhong Shao, Valery TrifonovSeptember 1999 **ACM SIGPLAN Notices , Proceedings of the fourth ACM SIGPLAN international conference on Functional programming ICFP '99**, Volume 34 Issue 9**Publisher:** ACM PressFull text available:  pdf(1.81 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We propose a conservative extension of the polymorphic lambda calculus (F^{ω}) as an

intermediate language for compiling languages with name-based class and interface hierarchies. Our extension enriches standard $F^{\ω}$ with recursive types, existential types, and row polymorphism, but only ordered records with no subtyping. Basing our language on $F^{\ω}$ makes it also a suitable target for translation from other higher-order ...

9 Ada, C, C++, and Java vs. the Steelman



David A. Wheeler

July 1997 **ACM SIGAda Ada Letters**, Volume XVII Issue 4

Publisher: ACM Press

Full text available: [pdf\(1.57 MB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)



This paper compares four computer programming languages (Ada95, C, C++, and Java) with the requirements of "Steelman", the original 1978 requirements document for the Ada computer programming language. This paper provides a view of the capabilities of each of these languages, and should help those trying to understand their technical similarities, differences, and capabilities.

10 Interoperability for digital libraries worldwide



Andreas Paepcke, Chen-Chuan K. Chang, Terry Winograd, Héctor García-Molina

April 1998 **Communications of the ACM**, Volume 41 Issue 4

Publisher: ACM Press

Full text available: [pdf\(299.48 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



11 Tools and approaches for developing data-intensive Web applications: a survey



Piero Fraternali

September 1999 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 3

Publisher: ACM Press

Full text available: [pdf\(524.80 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)



The exponential growth and capillar diffusion of the Web are nurturing a novel generation of applications, characterized by a direct business-to-customer relationship. The development of such applications is a hybrid between traditional IS development and Hypermedia authoring, and challenges the existing tools and approaches for software production. This paper investigates the current situation of Web development tools, both in the commercial and research fields, by identifying and characterizing ...

Keywords: HTML, Intranet, WWW, application, development

12 VIRTUS: a collaborative multi-user platform



Kurt Saar

February 1999 **Proceedings of the fourth symposium on Virtual reality modeling language**

Publisher: ACM Press

Full text available: [pdf\(4.09 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



Keywords: VRML, VRML event model, architecture construction engineering (ACE), collaborative virtual environment (CVE), computer supported collaborative work (CSCW), dead reckoning, distributed environments, living worlds, multi-user technologies, virtual environments, virtual worlds

13 A study of large object spaces

Michael Hicks, Luke Hornof, Jonathan T. Moore, Scott M. Nettles
October 1998 **ACM SIGPLAN Notices , Proceedings of the 1st international symposium on Memory management ISMM '98**, Volume 34 Issue 3

Publisher: ACM Press

Full text available: [pdf\(1.05 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper examines the design space for copying garbage collectors (GCs) in which "large objects" are managed in a separate, non-copy-collected space. We focus on two main issues: 1. how to set the policy for classifying objects as "large" 2. how to manage the large object space. We explore these issues experimentally using the Oscar GC testbed. In particular, we vary the threshold size of large objects and also whether the objects may contain pointers. Furthermore, we compare the performance of tr ...

14 Composable ad hoc location-based services for heterogeneous mobile clients

Todd D. Hodes, Randy H. Katz

October 1999 **Wireless Networks**, Volume 5 Issue 5

Publisher: Kluwer Academic Publishers

Full text available: [pdf\(403.18 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

15 Lightweight object-oriented shared variables for distributed applications on the Internet

Jacob Harris, Vivek Sarkar

October 1998 **ACM SIGPLAN Notices , Proceedings of the 13th ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications OOPSLA '98**, Volume 33 Issue 10

Publisher: ACM Press

Full text available: [pdf\(1.78 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper describes a lightweight yet powerful approach for writing distributed applications using shared variables. Our approach, called SHAREHOLDER, is inspired by the flexible and intuitive model of information access common to the World Wide Web. The distributed applications targeted by our approach all share a weak consistency model and loose transaction semantics, similar to a user's model of accessing email, bulletin boards, chat rooms, etc. on the Internet. The SHA ...

Keywords: distributed and parallel systems, language design and implementation, persistence, world wide web

16 Logic programming with the World-Wide Web

Seng Wai Loke, Andrew Davison

March 1996 **Proceedings of the the seventh ACM conference on Hypertext**

Publisher: ACM Press

Full text available: [pdf\(1.97 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: World-Wide Web, common client interface, mobile code, mosaic, prolog, structured logic programming

17 [Next century challenges: data-centric networking for invisible computing: the Portolano project at the University of Washington](#)  

Mike Esler, Jeffrey Hightower, Tom Anderson, Gaetano Borriello
 August 1999 **Proceedings of the 5th annual ACM/IEEE international conference on Mobile computing and networking**
 Publisher: ACM Press
 Full text available:  [pdf\(1.03 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

18 [VizWiz: a Java applet for interactive 3D scientific visualization on the web](#) 
 Cherilyn Michaels, Michael Bailey
 October 1997 **Proceedings of the 8th conference on Visualization '97**
 Publisher: IEEE Computer Society Press
 Full text available:   [pdf\(1.01 MB\)](#)  Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)
[Publisher Site](#)

19 [What future for the distributed systems annex?](#) 
 Laurent Pautet, Samuel Tardieu
 September 1999 **ACM SIGAda Ada Letters , Proceedings of the 1999 annual ACM SIGAda international conference on Ada SIGAda '99**, Volume XIX Issue 3
 Publisher: ACM Press
 Full text available:  [pdf\(563.19 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper, we report our experience as implementors and users of the Ada 95 Distributed Systems Annex (annex E of the Ada reference manual). We identify the principal strengths and weaknesses of the annex, and make some proposals to improve it either immediately or for the next revision of the language (Ada0X). Our goal is to get an annex that is more open and compatible with other distributed systems such as CORBA, without loosing the capability of developing pure Ada rock solid distributed ...

20 [TourisT: the application of a description logic based semantic hypermedia system for tourism](#) 
 Joe Bullock, Carole Goble
 May 1998 **Proceedings of the ninth ACM conference on Hypertext and hypermedia : links, objects, time and space---structure in hypermedia systems: links, objects, time and space---structure in hypermedia systems**
 Publisher: ACM Press
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